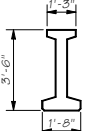
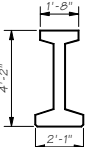
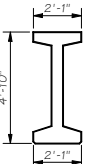
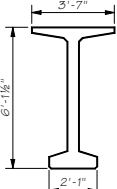
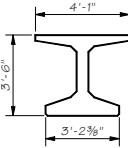
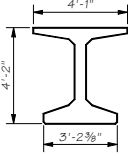
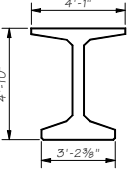
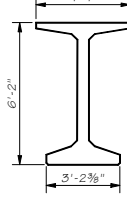
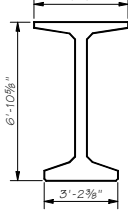
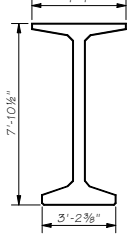
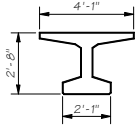
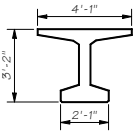
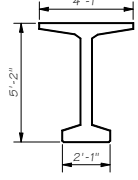
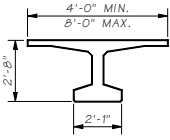
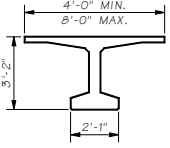
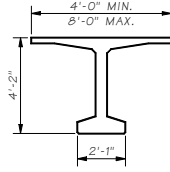
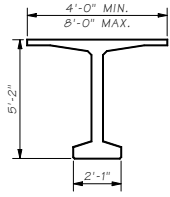

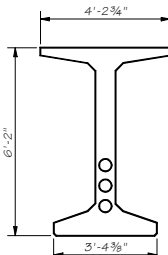
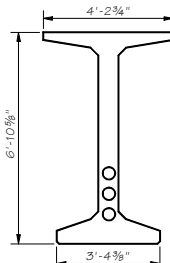
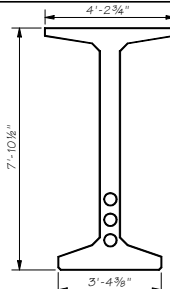
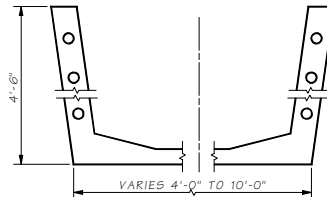
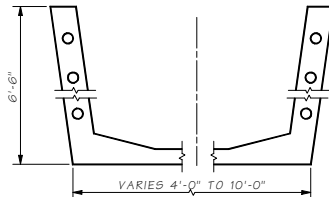
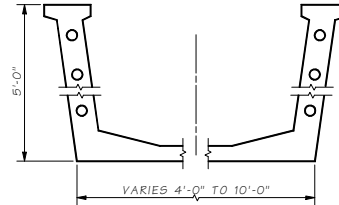
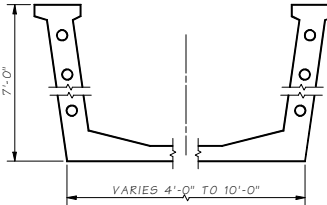


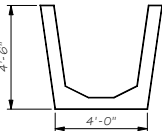
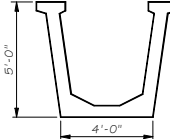
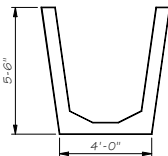
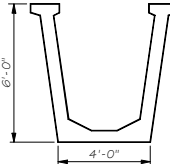
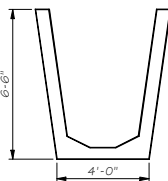
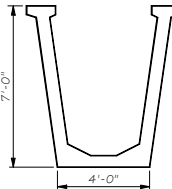
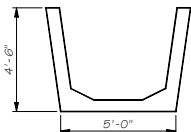
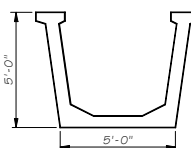
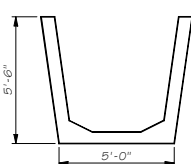
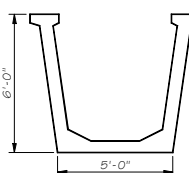
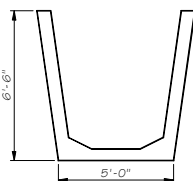
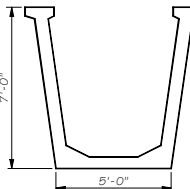
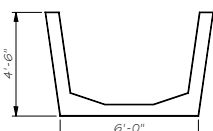
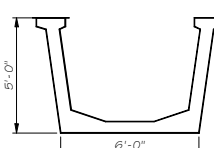
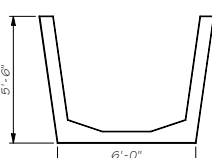
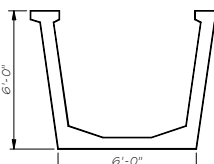
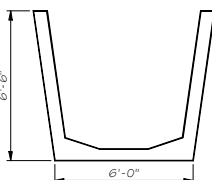
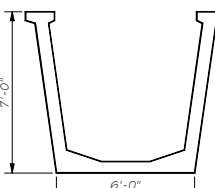

PRECAST PRESTRESSED GIRDERS

| GIRDER DEPTH | 2'-8" | 3'-2" | 3'-6" | 4'-2" | 4'-10" | 5'-2" | 6'-2" | 6'-10 $\frac{3}{8}$ " | 7'-10 $\frac{1}{2}$ " |
|-------------------------------|---|--|---|---|---|---|--|---|---|
| W GIRDERS | | |  W42G SPAN LENGTH = 80 FT. |  W50G SPAN LENGTH = 110 FT. |  W58G SPAN LENGTH = 120 FT. | |  W74G SPAN LENGTH = 140 FT. | | |
| WIDE FLANGE GIRDERS | | |  WF42G SPAN LENGTH = 110 FT. |  WF50G SPAN LENGTH = 130 FT. |  WF58G SPAN LENGTH = 145 FT. | |  WF74G SPAN LENGTH = 165 FT. |  WF83G SPAN LENGTH = 175 FT. |  WF95G SPAN LENGTH = 175 FT. |
| BULB-TEE GIRDERS |  W32BTG SPAN LENGTH = 75 FT. |  W38BTG SPAN LENGTH = 90 FT. | | | |  W62BTG SPAN LENGTH = 135 FT. | | | |
| THIN FLANGE DECK BULB-TEE |  W32TFG |  W38TFG | |  W50TFG | |  W62TFG | NOTES: 1. SPAN LENGTHS SHOWN ARE THE MAXIMUM FOR EACH TYPE OF GIRDER USING PGSUPER PROGRAM. 2. THE CONCRETE COMPRESSIVE STRENGTHS FOR STANDARD DESIGNS ARE LIMITED TO 7.5 ksi AT TRANSFER AND 9.0 ksi AT FINAL. 3. THE DESIGN IS BASED ON 0.6" DIAM. LOW RELAXATION PRESTRESSING STRANDS. | | |
| SR JOB NO. SHEET 5.6-A1-14 | Bridge Design Engr. M:\STANDARDS\Girders\Design Charts\STD PC GIRDERS.MAN Supervisor Designed By Checked By Detailed By Bridge Projects Engr. Prelim. Plan By Architect/Consultant | | | HOUR NO. 10 STATE WASH. JOB NUMBER DATE REVISION BY APPD | FED. AID PROJ. NO. SHEET NO. TOTAL SHEETS | BRIDGE AND STRUCTURES OFFICE |  Washington State Department of Transportation | STANDARD PRESTRESSED CONCRETE GIRDERS I-GIRDER SECTIONS | REVISION SHEET NO. SHEET OF SHEETS |

| PRECAST PRESTRESSED NON-COMPOSITE DECKED GIRDERS | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|
| GIRDER DEPTH | 1'-0" | 1'-6" TO 1'-8" | 2'-2" TO 2'-4" | 2'-11" TO 3'-0" | 3'-5" | 4'-5" | 5'-5" | | |
| DECK BULB TEES | | | | <div><p><u>W35DG</u> SPAN LENGTH = 90 FT.</p></div> | <div><p><u>W41DG</u> SPAN LENGTH = 105 FT.</p></div> | <div><p><u>W53DG</u> SPAN LENGTH = 125 FT.</p></div> | <div><p><u>W65DG</u> SPAN LENGTH = 145 FT.</p></div> | | |
| DOUBLE TEES | | <div><p><u>DOUBLE-TEE GIRDERS</u> SPAN LENGTH = 25 FT.</p></div> | <div><p><u>DOUBLE-TEE GIRDERS</u> SPAN LENGTH = 40 FT.</p></div> | <div><p><u>DOUBLE-TEE GIRDERS</u> SPAN LENGTH = 55 FT.</p></div> | | | | | |
| TRI-BEAM | | | <div><p><u>RIBBED GIRDERS</u> SPAN LENGTH = 60 FT.</p></div> | | | | | | |
| SLABS | <div><p><u>1'-0" DEEP SLAB</u> SPAN LENGTH = 35 FT.</p></div> | <div><p><u>1'-6" DEEP SLAB</u> SPAN LENGTH = 60 FT.</p></div> | <div><p><u>2'-2" DEEP SLAB</u> SPAN LENGTH = 80 FT.</p></div> | <div>NOTES:</div> <div>1. SPAN LENGTHS SHOWN ARE THE MAXIMUM FOR EACH TYPE OF GIRDER.</div> <div>2. SPAN LENGTHS SHOWN ARE FOR NON-COMPOSITE DECKED MEMBERS WITH 3" HMA OVERLAY.</div> <div>3. DECKED MEMEBERS COULD BE DESIGNED AS COMPOSITE MEMBERS USING PGSUPER PROGRAM IF A MINIMUM OF 5" CAST-IN-PLACE SLAB IS PROVIDED.</div> <div>4. THE CONCRETE COMPRESSIVE STRENGTHS FOR STANDARD DESIGNS ARE LIMITED TO 6.0 ksi AT TRANSFER AND 8.0 ksi AT FINAL.</div> <div>5. THE DESIGN IS BASED ON 0.6" DIAM. LOW RELAXATION PRESTRESSING STRANDS.</div> | | | | | |
| <div><div><div><div>Bridge Design Engr.</div><div>Supervisor</div><div>Designed By</div><div>Checked By</div><div>Detailed By</div><div>Bridge Projects Engr.</div><div>Prelim. Plan By</div><div>Architect/Specialist</div></div><div><div>DATE</div><div>REVISION</div><div>BY</div><div>APPROV.</div></div></div><div><div>M:\STANDARDS\Girders\Design Charts\STD PC NON COMP DECKED GIRDERS.MAN</div><div>10</div><div>WASH.</div><div>JOB NUMBER</div></div><div><div>STATE</div><div>FED. AID PROJ. NO.</div><div>SHEET NO.</div><div>TOTAL SHEETS</div></div></div> <div><div>BRIDGE AND STRUCTURES OFFICE</div><div> Washington State Department of Transportation</div></div> <div><div>STANDARD PRESTRESSED CONCRETE GIRDERS</div><div>DECKED GIRDER SECTIONS</div></div> <div><div>BUILD SHEET NO.</div><div>SHEET</div><div>OF</div></div> | | | | | | | | | |

| PRECAST POST-TENSIONED SPLICED GIRDERS | | | | | | | | | | | | | | |
|--|---------|-------|--|--|--|--|--|--|--|--|--|--|--|--|
| SR | JOB NO. | SHEET | GIRDER DEPTH | | | 4'-6", 5'-0", 5'-6", 6'-0", 6'-2", 6'-6" | | | 7'-0" | | | 8'-0" | | |
| | | | SPLICED W-GIRDERS | | |  WF74PTG SPAN LENGTH = 170 FT., 195 FT.** | | |  WF83PTG SPAN LENGTH = 185 FT., 205 FT.** | | |  WF95PTG SPAN LENGTH = 200 FT., 235 FT.** | | |
| | | | SPLICED TUB GIRDERS | | |  POST-TENSIONED TUB SECTION SPAN LENGTH = 150 FT. | | |  POST-TENSIONED TUB SECTION SPAN LENGTH = 180 FT. | | | | | |
| | | | SPLICED FLANGED TUB GIRDERS | | |  POST-TENSIONED TUB SECTION FOR S-I-P DECK PANEL SPAN LENGTH = 160 FT. | | |  POST-TENSIONED TUB SECTION FOR S-I-P DECK PANEL SPAN LENGTH = 190 FT. | | | <p>NOTES:</p> <ol style="list-style-type: none">SPAN LENGTHS SHOWN ARE THE MAXIMUM FOR EACH TYPE OF GIRDER USING PGSPLICE PROGRAM.THE CONCRETE COMPRESSIVE STRENGTHS FOR STANDARD DESIGNS ARE LIMITED TO 7.5 ksi AT TRANSFER AND 9.0 ksi AT FINAL.THE DESIGN IS BASED ON 0.6" DIAM. LOW RELAXATION PRESTRESSING STRANDS.STRENGTH OF CONCRETE AT THE CLOSURES SHALL NOT EXCEED 6.0 ksi FOR POST-TENSIONING BEFORE SLAB CASTING AND 4.0 ksi FOR POST-TENSIONING AFTER SLAB CASTING. <p>* POST-TENSIONED BEFORE SLAB CASTING</p> <p>** POST-TENSIONED AFTER SLAB CASTING</p> | | |
| Bridge Design Engr. | | | M:\STANDARDS\Girders\Design Charts\STD PC PT SPLICED GIRDERS.MAN | | | FED. AID PROJ. NO. | | | SHEET NO. | | | TOTAL SHEETS | | |
| Supervisor | | | 10 | | | STATE | | | WASH. | | | JOB NUMBER | | |
| Designed By | | | | | | | | | | | | | | |
| Checked By | | | | | | | | | | | | | | |
| Detailed By | | | | | | | | | | | | | | |
| Bridge Projects Engr. | | | | | | | | | | | | | | |
| Prelim. Plan By | | | | | | | | | | | | | | |
| Architect/Specialist | | | DATE | | | REVISION | | | BY | | | APPD. | | |
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5.6-A1-16

| PRECAST PRESTRESSED COMPOSITE TUB GIRDERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| GIRDER DEPTH | | 4'-6" | | 5'-0" | | 5'-6" | | 6'-0" | | 6'-6" | | 7'-0" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4'-0" WIDE | |  | |  | |  | |  | |  | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <u>U54G4</u> SPAN LENGTH = 120 FT. | | <u>UF60G4</u> SPAN LENGTH = 140 FT. | | <u>U66G4</u> SPAN LENGTH = 140 FT. | | <u>UF72G4</u> SPAN LENGTH = 155 FT. | | <u>U78G4</u> SPAN LENGTH = 160 FT. | | <u>UF84G4</u> SPAN LENGTH = 180 FT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5'-0" WIDE | |  | |  | |  | |  | |  | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <u>U54G5</u> SPAN LENGTH = 120 FT. | | <u>UF60G5</u> SPAN LENGTH = 145 FT. | | <u>U66G5</u> SPAN LENGTH = 140 FT. | | <u>UF72G5</u> SPAN LENGTH = 160 FT. | | <u>U78G5</u> SPAN LENGTH = 160 FT. | | <u>UF84G5</u> SPAN LENGTH = 180 FT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6'-0" WIDE | |  | |  | |  | |  | |  | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <u>U54G6</u> SPAN LENGTH = 120 FT. | | <u>UF60G6</u> SPAN LENGTH = 145 FT. | | <u>U66G6</u> SPAN LENGTH = 140 FT. | | <u>UF72G6</u> SPAN LENGTH = 160 FT. | | <u>U78G6</u> SPAN LENGTH = 160 FT. | | <u>UF84G6</u> SPAN LENGTH = 180 FT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div>NOTES:</div> <div>1. SPAN LENGTHS SHOWN ARE THE MAXIMUM FOR EACH TYPE OF GIRDER USING PGSUPER PROGRAM.</div> <div>2. THE CONCRETE COMPRESSIVE STRENGTHS FOR STANDARD DESIGNS ARE LIMITED TO 7.5 ksi AT TRANSFER AND 9.0 ksi AT FINAL.</div> <div>3. THE DESIGN IS BASED ON 0.6" DIAM. LOW RELAXATION PRESTRESSING STRANDS.</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><td colspan="2">Bridge Design Engr.</td><td colspan="10">M:\STANDARDS\Girders\Design Charts\STD PC TUB GIRDERS.MAN</td></tr><tr><td>Supervisor</td><td></td><td></td><td></td><td></td><td></td><td></td><td>STATE</td><td></td><td>FED. AID PROJ. NO.</td><td></td><td>SHEET NO.</td><td>TOTAL SHEETS</td></tr><tr><td>Designed By</td><td></td><td></td><td></td><td></td><td></td><td></td><td>10</td><td>WASH.</td><td></td><td></td><td></td><td></td></tr><tr><td>Checked By</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Detailed By</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Bridge Projects Engr.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>JOB NUMBER</td><td></td><td></td><td></td><td></td></tr><tr><td>Prelim. Plan By</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Architect/Specialist</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>DATE</td><td></td><td>REVISION</td><td></td><td></td><td></td><td>BY</td><td>APPROD</td><td></td><td></td><td></td><td></td></tr></table> | | | | | | | | | | | | Bridge Design Engr. | | M:\STANDARDS\Girders\Design Charts\STD PC TUB GIRDERS.MAN | | | | | | | | | | Supervisor | | | | | | | STATE | | FED. AID PROJ. NO. | | SHEET NO. | TOTAL SHEETS | Designed By | | | | | | | 10 | WASH. | | | | | Checked By | | | | | | | | | | | | | Detailed By | | | | | | | | | | | | | Bridge Projects Engr. | | | | | | | | JOB NUMBER | | | | | Prelim. Plan By | | | | | | | | | | | | | Architect/Specialist | | | | | | | | | | | | | | DATE | | REVISION | | | | BY | APPROD | | | | |
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| <div>BRIDGE AND STRUCTURES OFFICE</div> <div> Washington State Department of Transportation</div> <div>STANDARD PRESTRESSED CONCRETE GIRDERS</div> <div>TUB SECTIONS</div> <div><div>PRELIM. SHEET NO.</div><div>SHEET</div><div>OF</div><div>SHEETS</div></div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |